

Message Text

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PAGE 01 STATE 207931

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ORIGIN AID-25

INFO OCT-01 AF-10 ISO-00 IGA-02 RSC-01 /039 R

DRAFTED BY SER/ENGR:TELLIOTT:DM

APPROVED BY AFR/CWR:OCYLKE

AFR/CWR:TLAMBACHER(DRAFT)

SER/COM:SROBERTS(DRAFT)

AFR/CWR:DBLANE(SUBS)

AA/AFR:DSBROWN(INFO)

AF/W:CDARIS(SUBS)

DESIRED DISTRIBUTION

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FM SECSTATE WASHDC

TO AMEMBASSY OUAGADOUGOU PRIORITY

AMEMBASSY NIAMEY PRIORITY

UNCLAS STATE 207931

AFDROUGHT

E.O. 11652: N/A

FOR FEI

SUBJ: BAILEY BRIDGES

REF: (1) OUAGADOUGOU 2173

1. TO CALCULATE COMPOSITION OF BRIDGE MADE UP OF BAILEY SECTIONS, BRIDGE LOADING (LIVE LOAD) AS WELL AS NUMBER AND LENGTH OF SPANS MUST BE KNOWN. REFTTEL GIVES REQUIRED LENGTH OF 36 FT. (WHICH MIGHT BE ERROR) BUT NO LOADING.

2. USED BAILEY BRIDGE SECTIONS ARE AVAILABLE FROM ARMY ENGINEER DEPOT, MARION, OHIO, BUT MINIMUM LENGTH SOLD IS 130 FEET.

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PAGE 02 STATE 207931

3. ASSUMING A CLEAR SPAN OF 130 FEET AND LIVE LOAD OF 50

TONS WOULD REQUIRE TWO 130 FT. GIRDERS,EACH MADE UP OF FOUR SECTIONS AND CALLED A DOUBLE-DOUBLE IN BAILEY VERNAC-
UAR. THIS BRIDGE WOULD CARRY A GROSS LIVE LOAD OF 50 TONS
AND ITS GROSS WEIGHT (DEAD LOAD) WOULD BE 117 TONS.

4. ESTIMATED COST: MATERIAL 36,000 DOLS., ERECTION TOOLS
7,000 DOLS., TRANSPORTATION MARION TO TEMA 22,000 DOLS.,
TOTAL 65,000 DOLS. ESTIMATED TIME MARION TO TEMA 120 DAYS.

5. COST OF OVERLAND TRANSPORTATION TEM TO PO MAY BE
ESTIMATED BASED ON 117 TONS STRUCTURAL STEEL SECTIONS AND
LOCAL GHANA TRUCKING COSTS.

6. ERECTION OF BRIDGE USING THE TOOLS AND MANUALS FUR-
NISHED SHOULD BE POSSIBLE WITH MINIMAL EXPATRIATE
T.A. KISSINGER

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